

ABSTRACT OF THE DISCLOSURE

A method for dynamically directing a wireless repeater is provided. A repeater will include an antenna, a mobile station modem, a processor and data storage. The processor will cause the antenna to sweep over a coverage area, possibly through increments. At each
5 increment, the antenna will receive signals and pass the signals to the MSM. The MSM will then apply a rake receiver to identify characteristics in the received signals, such as PN offsets and signal-to-noise ratios (E_C/I_O) for each PN offset, and the processor will record in the data storage the PN offsets and corresponding signal-to-noise ratios at that increment. Given this data, the processor will then instruct the antenna to move to the increment where the MSM detected the
10 strongest signal-to-noise ratio. As a result, the antenna of the repeater will point at a base station that is likely to supply the signal with the highest signal-to-noise ratio.